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ZIMINOV, N.V.; SMIRNOV, Yu.T.; FAZUILLIN, M.I.

Comparative evaluation of various ways of drilling ventilation holes. Uch. zap. SAIGIMSa no.7:241-248 '62. (MIRA 17:2)

1. Sredneaziatskiy nauchno-issledovatel'skiy institut geologii i mine-ral'nogo syr'ya, Tashkunt i Kanimansurskaya geologo-razvedochnaya ekspeditsiya.

s/137/62/000/002/118/1 A060/A101

AUTHORS:

Golovin, G. F., Zimin, N. V.

TITLE

Cooling capacity of certain media when using the spray feed to the

surface of articles

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 2, 1962, 107, abstract 21721 (V sb. "Prom. primemeniye tokov vysokoy chastoty v elektrotermii".

Moscow-Leningrad, Mashgiz, 1961, 91 - 101)

The cooling capacity of 20 different liquids was studied under conditions of spray cooling. The aim was to choose a medium such as would ensure conditions approaching the conditions of cooling in an oil vat. On the basis of the results of the investigation the conclusion is drawn that the most acceptable cooling medium which may be applied in spray form is the water solution of polyvinyl alcohol at a concentration of 0.05 - 0.1%. This solution ensures a moderately rapid cooling in the region of pearlitic transformation, but sufficient to prevent the decomposition of the austenite in that region; simultaneously at 300°C and below the cooling rate approaches the cooling rate in oil. A tendency to

Card 1/2

Cooling capacity of certain media when...

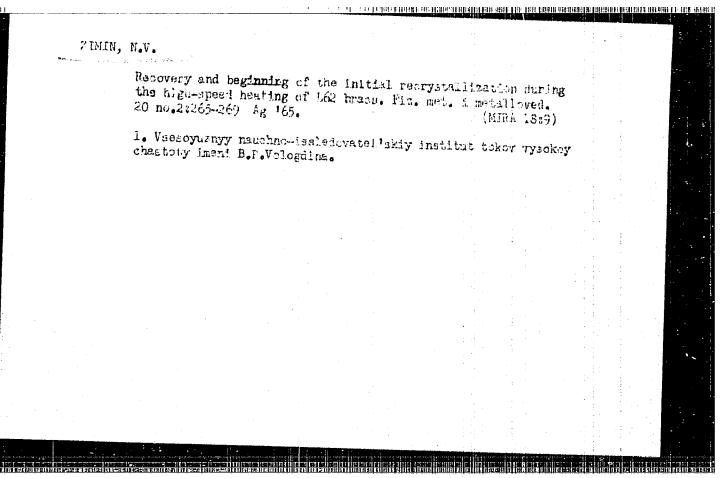
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foaming constitutes a drawback of this liquid. NaCl solutions at a temperature up to 90°C may be recommended for hardening articles having simple shapes and fabricated from alloy steels.

A. Babayeva

[Abstracter's note: Complete translation]

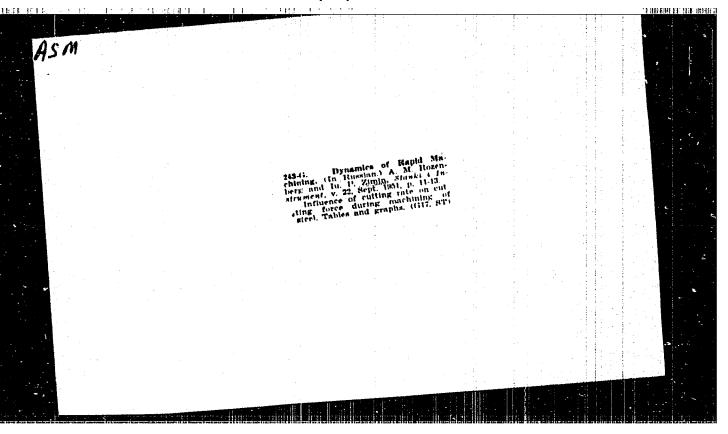
Card 2/2



MUSHEN, Boris Nikolayevich, kapitan 2 ranga; ZIMIN, N.Ye.

On the armored train "Dmitry Donskoy." B.W. Bushen. [Corrections and additions by W.E.Zimin].Mor.zap. 12 no.3163 D154. (MLRA 812) (Ruseia—Revolution, 1917-1921—Personal narratives)

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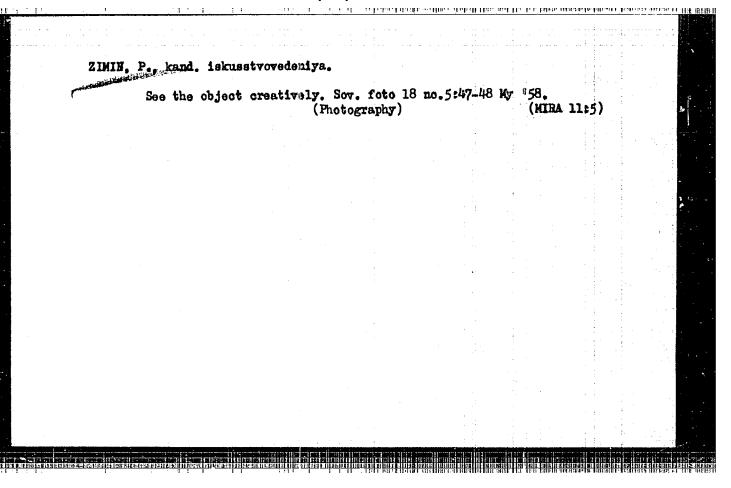


KABLUKOV. D. (gor. Borisoblebsk); VIKTOROV. S. (g. Sorochinsk); SIMIH. P. (g. Volzhak).

Correspondence with readers. Tekh. mol. 26 no.12;28 !58.

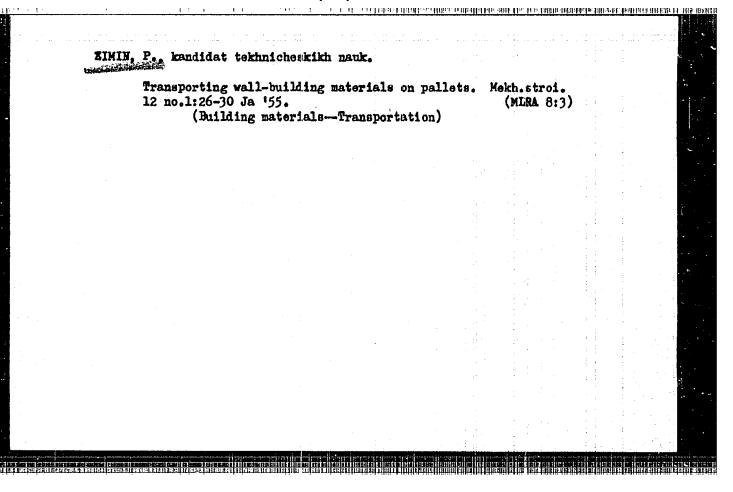
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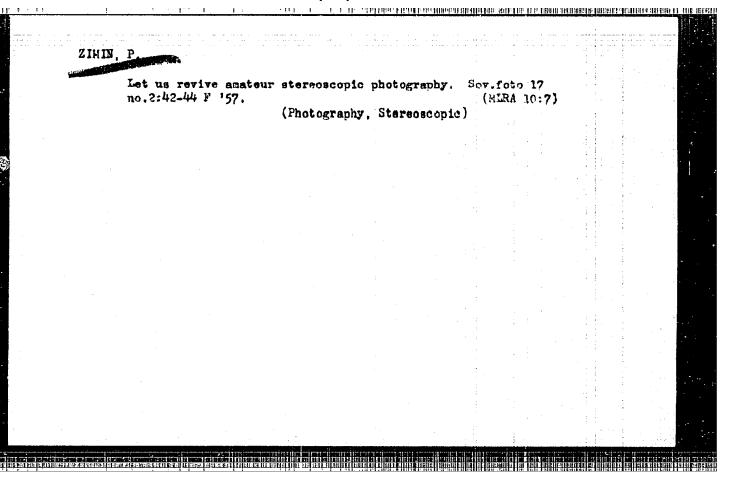
(Oxygen--Industrial applications) (Venus (Flanet)) (Nuclear physics)

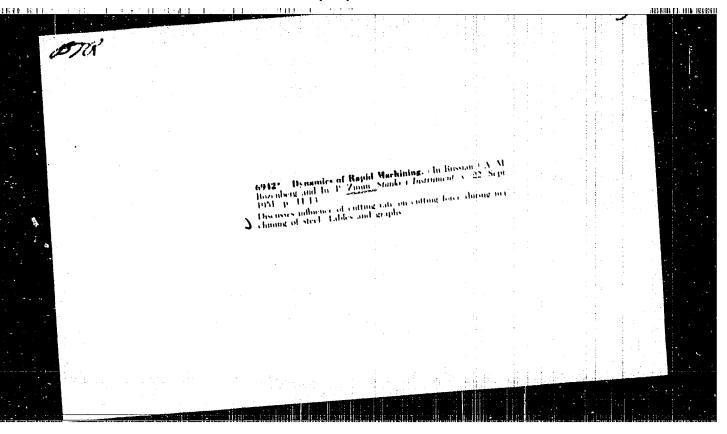


Forming frames in stereoscopic photography. Sov.foto. 19 no.1:9-10
Ja *59. (Photography, Stereoscopic)

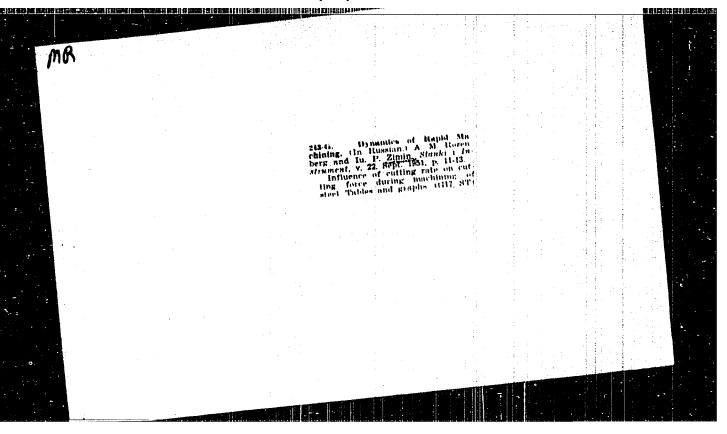
(Photography, Stereoscopic)

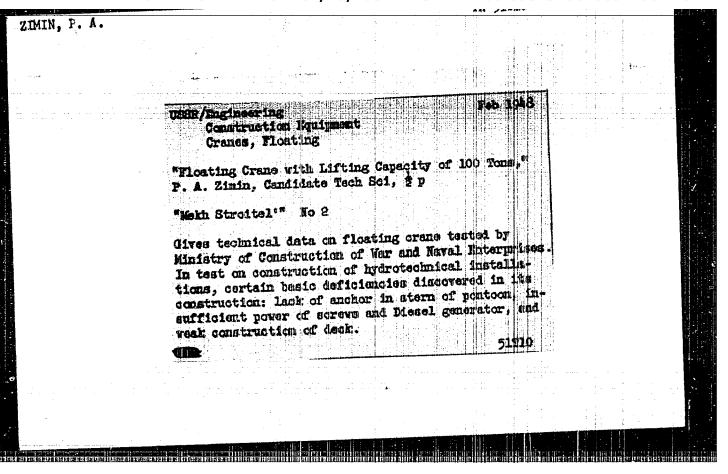


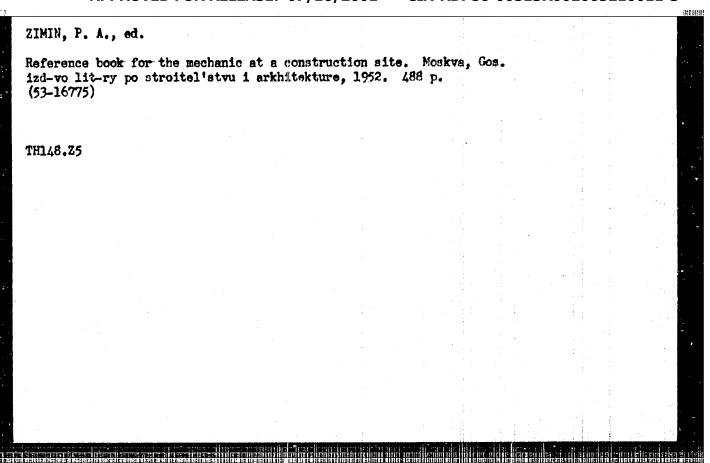




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ZIMIN, P.A., kandidat tekhnicheskiy nauk, redaktor; MEPOMWYASHCHAYA, T.F.,
Födaktor; TOKER, A.M., tekhnicheskiy redaktor

[Performances of construction cranes] Proizvoditel'nost' stroitel'nykh kranov. Moskva, Gos. izd-vo lit-ry stroit. i arkhitekture,
1954. 87 p. (MERA 8:7)

1. Moscow. Vsesoyusnyy rauchno-issledovatel'skiy institut organizatsii i mekhaniantsii stroitel'stva.

(Granes, derricks, etc.)

THE REPORT OF THE PROPERTY OF

EIMIN, Petr Aleksandrovich, kandidat tekhnicheskikh nank; TUSHNYAKOV, M.D., redaktor; METVEDEVA, L.Ya., tekhnicheskiy redaktor.

[Mechanising the transportation of wall materials for construction work] Mekhanisirovannaia dostavka stenovykh materialov v stroitel-stve. Moskva, Gos. isd-vo lit-ry po stroit. i architekture, 1955.

197 p. (MLRA 9:4)

(Building materials -- Transportation)

ZIMIN, P.A., kandidat tekhnicheskikh nauk, redaktor; BEGAK, B.A., kandidat tekhnicheskiy redaktor.

[Over-all mechanisation in construction] Kompleksmain mekhanisatsila stroitel'nykh rabot. Moskva, Gos.isd-vo lit-ry po stroitel'stvu i arkhitekture. Vol. 1 [Loading, unloading and transportation work; a manual] Pogruzochno-razgruzochnye i transportnye raboty; spravochnoe posobie. 1955. 280 p.(MLRA 8:12)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut organizatsii i mekhanimatsii stroitel'stwa.
(Loading and unloading)

AND A TELEFORM OF THE ACTION OF THE CONTRACT O

ZIMIN, P.A., kandidat tekhnicheskikh namk, redaktor; SLEZNIKOV, G.I., inzhener, redaktor; BEGAK, B. A., redaktor; MEDVEDEV, L.Ya., tekhnicheskiy redaktor.

[Handbook for mechanics at construction projects] Spravochnik mekhanika stroitel'nogo uchastka. Isd.2-ce, perer.i dop. Moskva, Gos.izd-vo lit-ry po stroitel'stvu i arkhitekture, 1955. 478 p. (Construction industry-Handbooks, manuals, etc.)

and the state of t

ZIMIN, P.A., kandidat tekhnicheskikh nauk; PETRIKOVSKIY, S.Kh., inzhener.

Pallet transport of bricks by the railroads and mixed transport lines. Heldh.trud.rab.10 no.4:17-20 Ap 156. (MLRA 9:7)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065210011-3"

ZIMIN, P.A., kandidat tekhnicheskikh nauk.

The BE-5-195 building erection crane. Mekh.stroi.13 no.4:15-18
Ap *56. (Cranes, derricks, etc.) (MIRA 9:7)

The state of the s

ZIMIN, P.A., inzhener; VERZHBITSKIY, K.I., inzhener; KARPUNHIN, S.S.,

Equipment for making and mounting brick blocks. Biul.stroi.tekin. 13 no.5:13-16 My '56. (MLRA 9:8)

1. Nauchno-issledovatel'skiy institut po stroitel'stvu.
(Bricks) (Biulding blocks)

ZIMIN Patr Aleksandravich, kand.tekhn.nauk; TTAPKIN, B.G., red.izd-va; GUSEVA, S.S., tekhn.red.

[Mechanization of construction work; brief survey of developments during the leat 40 years] Mekhanizatsiia stroitel'stva; kratkii obsor razvitiia za 40 lst. Moskva, Gos.izd-vo lit-ry pc stroit.i arkhit., 1957. 90 p.

(Gonstruction industry)

(Gonstruction industry)

sov/ 100-11-2-9 AUTHOR: _) Candidates of Technical Zimin, P.A. Kazarinov, V.M.

TITLE: Transportation, Assembly, Scraping and Levelling Works and their Mechanization. (Mekhanizatsiya pod-

yemno-transportnykh, montazhnykh i pogruzochno-

razgruzochnykh rabot).

PERIODICAL: Mekhanizatsiya Stroitel stva, 1957, Mr. 11 pp. 6-14, USSR.

ABSTRACT: Progress made in the mechanization of the above-mentioned

work since 1917 is described. Figure 1 illustrates conveyer belts (15m long) used for the transportation of concrete mix. In 1928 building cranes with 1-ton to 1.25-ton capacity were used (see Figure 2). By 1931 the production of cranes had rapidly increased with the introduction of assembly building methods. Figure 3 shows a timber construction for a bridge crane, used for assembly purposes. From 1930 onwards great progress was made in the design and construction of assembly cranes for the building industry. The first mobile pneumatic suction

machine for the unloading of cement from railway trucks

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THE RESEARCH PROGRESS OF THE P

Transportation, Assembly, Scraping and Levelling Works and their Mechanization.

was constructed by the factory imeni Shevchenko in Khar'kov in 1936. Between 1931 and 1940 the amount of mechanical handling in Russia was inpresed from 1.2% to 4%. When the Moscow motor factory imeni Likhachev was built, the crane DIP (0.25-ton capacity) designed by engineers A.B. Dorf and V.A. Ivahov, was used. In the years 1938/40, production began on various new types of lifting, transporting and levelling machines, e.g. lorry-mounted cranes with 3-ton capacity, steamdriven track cranes of 20-ton capacity, and railway cranes with a capacity of 45 tons. The efficiency of these building machines increased steadily, e.g. during assembly of the blast furnace at the Azovatal factory. pre-cast elements, weighing 20 tons, were assembled, and a bridge, weighing 100 tons, was lifted in one piece. After the second world war the output of building machines was steadily increased. During 1946/50 more than 400 new prototypes were constructed in factories in Minstroydormash. Further expansion was effected during the fifth 5-year plan, when 435 prototypes were made. In 1940, 1,135 cranes were available for building

Card 2/3

Transportation, Assembly, Scraping and Levelling Works and their Mechanization.

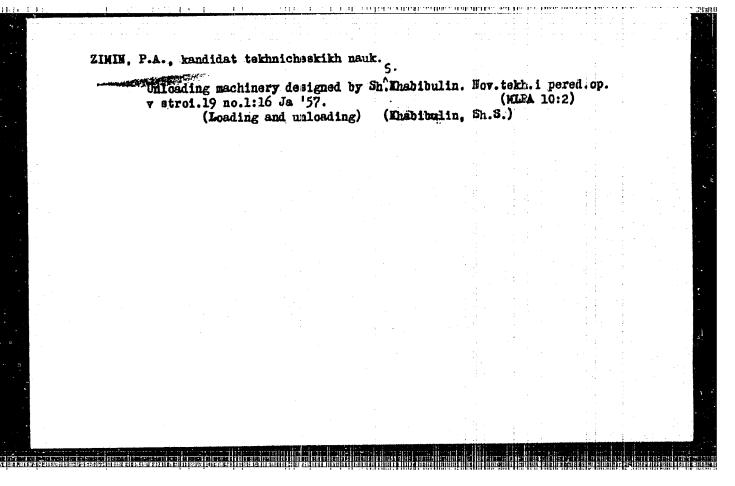
construction. This number increased in 1955 to 26,830. Table No.1 shows the various types of excavating machines produced and their corresponding capacities. Table Nr 2 gives the pre-war and post-war output of oranes. The following prototypes of granes were constructed: BKSM-2P BKSM-4P BKSM-14P. Figure 5 illustrates a bridge crane widely used for assembly work. Recently, a universal excavator crane of 10-ton capacity (E-656 -see Figure 6) was constructed. The factory imeni "Yanvarskoye vosstaniye" is manufacturing lorry-mounted cranes, preumatic tyre mounted cranes of 3, 5 and 10-ton capacity (see Figure 7), and cranes of 10-25-ton capacity (see Figure 8). Figure 9 illustrates excavating machine PZ/240. A number of machines have been constructed for unloading railway trucks, e.g. T-182/A. Figure 10 illustrates self-loading trucks for the transpertation of cement. Figure 11 illustrates lorry-mounted Crane 4008. There are eleven figures and two tables.

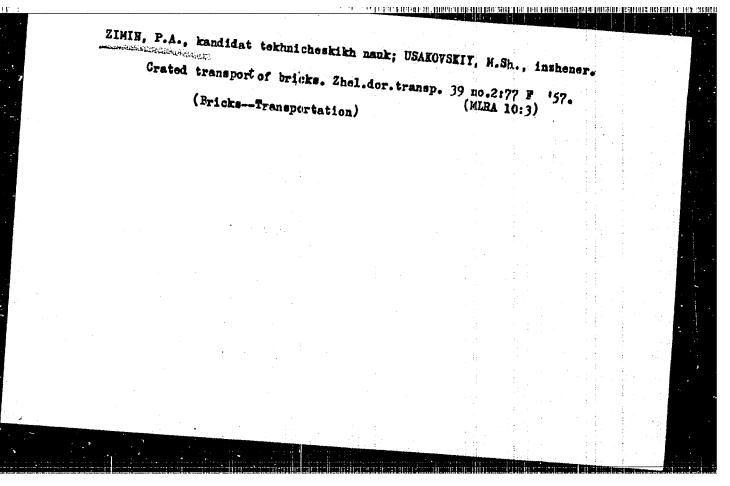
1. Construction equipment—Design 2. Construction equipment—

Card 3/3

KARPUKHIN, S.S.; ZIMIN, P.A.

An all-purpose grip for the lifting and inetallation of large blocks. Mekh.trud.rab. 11 no.8:36-37 Ag '57. (MIRA 10:11) (Hoisting machinery) (Duilding blocks)





AUTHOR:

Zimin, P.A., Candidate of Technical Sciences 100-58-2-3/9

TITLE:

The Development of Mechanization of Loading, Transportation and Unloading of Building Materials: (Razvitiye mekhanizatsii pegruzki, transportirovaniya i vygruzki stroymaterialov)

PERIODICAL: Mekhanizatsiya Stroitel'stva, 1958, Nr 2, Pp 14-19.

ABSTRACT:

A description of various transporting machines for building materials constructed since the All-Union Congress of Builders held in 1954 is given. Theping lorries ZIL-585 with a capacity of 3½ tons and MAZ-205 with a capacity of 5 tons, are used for the transportation of building materials. Tipping lorries YeAZ-210Yewith a capacity of 10 tons and MAZ-525 with a capacity of 25 tons, are used in connection with the construction of large power stations and industrial buildings. The Minsk factory is manufacturing tippers with a capacity of 40 tons. Figure 1 illustrates a tipping lorry with a capacity of 3½ tons which, like MAZ-506 (6-ton capacity) is of Russian manufacture. The Glavmosavtotrans uses tipping lorry ZIL-585 and trailers U2-AP-3 with hydraulically operated tipping mechanism. At present the Minsk factory is con-

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The Development of Mechanization of Loading, Transportation and Unloading of Building Materials.

structing tipping lorries with capacities of 5 and 10 tons with the tipping container situated in front (Figure 3). In 1958 the Minsk factory constructed towlorries driven by diesel engines of 100-165 h.p. The NIIOmS of the Academy of Building and Architecture of USSR, in conjunction with Ul'yanovak Motor Factory manufactured a similar tipping container as an attachment to lorry GAZ-69. The Khar'kov factory for road-3 building machines constructed a trailer-tipper of 17m capacity for attachment to tractor S-80. Figure 4 illustrates articulated trailer with 30-ton capacity attached to a tow-lorry YaAZ-210 manufactured by Glavleningradstroy At the end of the 5th 5-year plan a standard scraper, T-182, came into production. During 1955 /57 two types of mobile rail-mounted machines were constructed, one PZ-240 for unloading building materials ir open railing trucks, has a bucket conveyer belt combined with an ordinary conveyer belt. It is manufactured by the Glavstroymekhanizatsiya of the Ministry of Building of RSFSR. It is elevated to allow railway trucks to pass under. The weight of this machine is 18 tons and output 200-250

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The Development of Mechanization of Loading, Transportation and Unloading of Building Materials.

tons per hour (Figure 5). The other machine was constructed by Sh.S. Khabibulin. It has synchronised bucket conveyer belts and is also elevated. This machine weighs 31 tons and has a capacity of 500 tons per hour. The DNIIStroydormash is engaged on the design of a tower crane with a hydraulically operated grub attached to the end of the rod. This machine is also used for unloading materials from railway trucks. Figure 6 illustrates excavator manufactured by the firm "Alman" with the grub connected to an arm. This is much more efficient than the alternative of fixing the grub to cables. During 1955/57 numerous loading machines for building materials were manufactured in the USSR, e.g. loader 4,008, provided with a grub of 2.8m capacity (Figure 7). Single-bucket loader, D-380, with a capacity of 0.4m is illustrated in Figure 8. A hydraulically operated attachable bucket of 0.15m capacity can be attached to excavator E-15# mounted on "Belerus" chassis. This attach-ment allows for the handling of sand and gravel. The single bucket loader D-388, on tractor D-54, has a capacity of 0.8m. This capacity could be increased to

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The Development of Mechanization of Loading, Transportation and Unloading of Fuilding Materials.

1.5m³ (Figure 9). In 1958 loaders, with a bucket situated at the back of tractor S-100, were constructed: also attachable loading equipment to tractor DT-40. nother multi-lucket loader, T-166, was manufactured. This has tyred wheels, inclined bucket conveyer and ordinary conveyer belt. It is used to transport building materials to the size of 100mm. The "Udarnik" factory began the production of multi-bucket loaders, D-353, mounted on track undercarriage with attached conveyer belt for loading into lorries or railway trucks. Loader type PSG-100 is of continuous action; it is track mounted and has attached conveyer belt. In 1955/57 the Leningrad branch of the VNIIStroydormash designed a pnoumatic installation for the transportation of free cement into silos up to the height of 22m. Similar installations, S-347 and S-362A were modified. The Glavstroymekhanizatsiya of the Ministry of Building of RSFSR constructed a 'worm' conveyer, RP-4. The output of this conveyer is 25-tons per hour. A similar conveyer, S-400, was constructed by the Leningrad branch of Vniistroydormash and was tested

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100-58-2-3/9

The Development of Mechanization of Loading, Transportation and Unloading of Building Materials.

at Kuybyshevg drostroy by A. Ya. Inyakin. Cement carrier, S-386, was also constructed by the arcre-mentioned factory and lorry YaAZ-210 was used as a base, (Figure 10). In 1958 cement carriers (semi-trailers) with a capacity of 1,400 litres were designed as an attachment to lorries MAZ-200B. There are 10 figures and one table.

1. Construction—USSR 3. Materials--Handling

2. Construction equipment -- Design

Card 5/5

SOKOLOV, K.M.; YEVSTAFEYEV, S.V.; ROSTOTSKIY, V.K.; GRRCHIN, N.K.; STANKOVSKIY, A.P.; BAUMAN, V.A.; BERKMAN, I.L.; BORODACHEV, I.P.; BOYKO, A.G.; VALUTSKIY, I.I.; VATSSLAVSKAYA, L.Ya.; VOL'FSON, A.V.; DOMBROVSKIY, N.G.; YEGNUS, M.Ya.; YEFFEMENKO, V.P.; ZIMIN, P.A.; IVANOV, V.A.; KOZLOVSKIY, A.A.; KOSTIN, M.I.; KRIMERMAN, M.N.; LINEVA, M.S.; HERENKOV, A.S.; MIROPOL'SKAYA, N.K.; PETROV, G.D.; REBROV, A.S.; ROGOVSKIY, L.V.; SMIRNOV, G.Ya.; SHAFRANSKIY, V.N.; SHIMANOVICH, S.V.; SHNEYDER, V.A.

Evgenii Richardovich Peters; obituary; Mekh. stroi. 15 no.1:3 of cover Ja *58. (MIRA 11:1) (Peters. Evgenii Richardovich, 1892-1957)

Zimin, P.A., kand. tekhn. nauk.

Expansion of mechanised loading, transporting, and unloading of building materials. Mekh. stroi. 15 no.2:14-19 F '58, (Mirk 11:3) (Building materials.-Fransportation) (Leading and unloading)

POLYAKOV, Vladimir Ivanovich, kand.tekhn.nauk; ZIMIH. P.A., nauchnyy red.;
PODOBED, E.G., red.; DORODEOVA, L.A., tekhn.red.

[Modern methods for moving building oranes] Sovremennye sposoby
perebasirovanita stroitel nykh kramov. Moskva, Vses.uchebnopedagog.izd-vo Trudrezervizdat, 1959. 189 p.

(Granes, derricks, etc.)

(MIRA 14:2)

ZIMIN, PA. SOKOLOV, K.M. YEVSTAFEYEV, S.V.; ROSTOTSKIY, V.K.; STANKOVSKIY, A.P.; VARENIK, Ye.I.; ONUFRIYEV, I.A.; SVESHNIKOV, I.P.; URHOV, B.S.; BAUMAN, V.A.; BARSOV, I.P.; BASHINSKIY, S.V.; BOYKO, A.G.; VALUTSKIY, I.I.; ZAPOL'SKIY, V.P.; ZOTOV, V.P.; IVANOV, V.A.; HAZARINOV, V.M.; LEVI, S.S.; MAIOLETROV, Ye.K.; MERENEDV, A.S.; MIROPOL'SKAYA, M.K.; OSIPOV. L.C.: PEREL'MAN, L.M.; PETROV, G.D.; PHTROV, N.M.; POLYAKOV, V.I.: VATSSLAVSKAYA, L.Ya.; VAKHRAMEYEV, S.A.; VERZHITSKIY, A.M.; VIASOV, P.A.; VOL'ESDE, A.V.: VOSHCHININ, A.I.: DZHURROVSKIY, H.N.: DOMBROYSKIY, N.G.; YEPIFAROV, S.P.; YEFRENERKO, V.P.; ZELICHEROK, G.G.; ZIMIN, P.A.; POPOVA, N.T.; ROGOVSKIY, L.V.; RIEBROV, A.S.; SAFRYKIN, V.A.; SOVALOV, I.G.; SOSHIN, A.V.; STARUKHIN, N.M.; SURENTAN, G.S.; TOLORAYA, D.F.; TROITSKIY, Kh.L.; TUSHNYAKOV, M.D.; FROLOV, P.T.; TSIRKUROV, I.P. Andrei Vladimirovich Konorov; obituary. Mekh. stroi. 16 no.1:32 Ja (MIRA 12:1) 159. (Koncrov, Andrei Vladimirovich, 1890-1958)

ZIMIN, P.A., kand.tekhn.nauk

Cranes for assembling operations. Nov.tekh.mont.i spets.rab.v stroi. 21 no.9:10-15 S '59. (MIRA 12:11)

1. Nauchno-issledovatel'skiy institut no.200 (NII-200) Ministerstva stroitel'stva R.NSR. (Cranes, derricks, etc.)

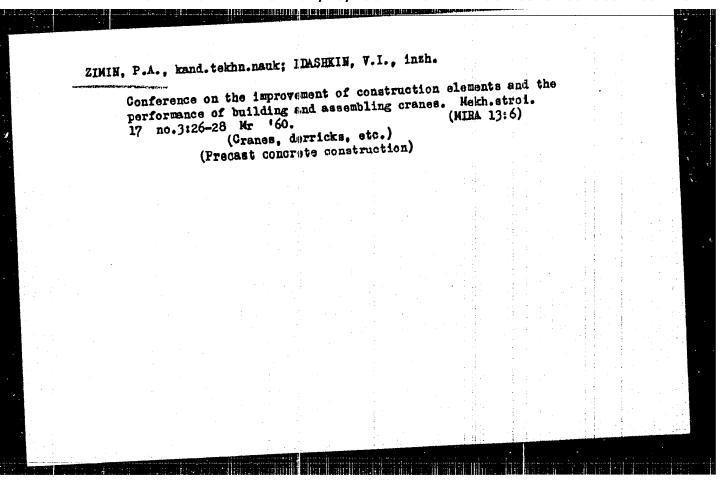
YMPIFANOV, Semen Pavlovich, kand.tekhn.nauk; POLYAKOV, Vladimir Ivanovich, kand.tekhn.nauk; AL'PERCVICH, Arkadiy Il'ich, insh.; Almin. P.A., kand.tekhn.nauk, nauchnyy red.; THLINGATER, L.A., red.; DCRODKOVA, L.A., tekhn.red.

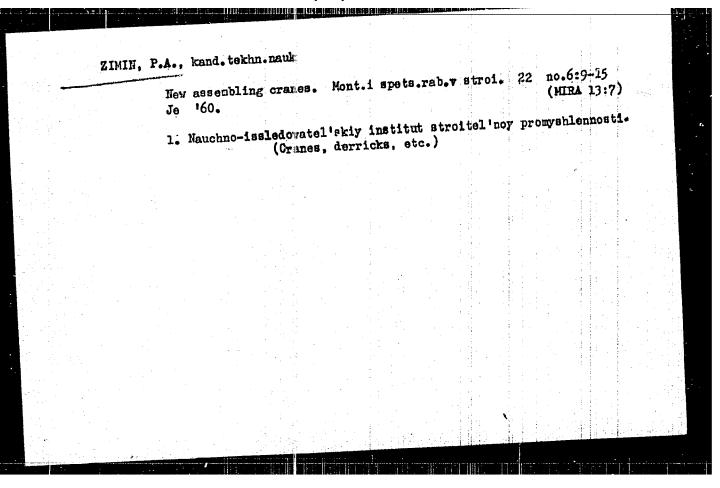
[Tower crane operator] Mashinist bashennykh krenov. Izd.2., perer. i dop. Moskva, Vses.uchebno-pedagog.izd-vo Proftekhizdat, 1960. 491 p. (MIRA 14:1) (Cranes, derricks, etc.)

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[Manual for building machinery operators] Sprayochnik mekhanika po ekspluatatsii stroitelinykh mashin. Pod red. P.A.Zimina. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materislam, 1960. 567 p. (MIRA 13:10)

1. Akademiya stroitel stva i arkhitektury SSSR. Institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel stvu. (Building machimery-Maintenance and repair)





BODUNGEN, I.N., inzh.; VINOGIADOV, K.V., insh.; VELLEISHTETN, A.L., inzh.;

GOL'DGOF, B.G., inzh.; KUZ'MIH, V.S., inzh.; KULIKOV, P.S., inzh.;

LEBEDEV, N.N., inzh.; LEVI, S.S., kand.takhn.nauk; HOZAHOV, M.S.,

inzh.; SIDOROV, V.H., insh.; SOKOLOV, D.V., inzh.; SLOHIM, N.K.,

inzh., laureat Staliaskoy premii; EPSHTEYN, A.L., inzh.; ANTRUSHIM,

B.D., inzh., nauchnyy red.; SIMAKOV, S.H., inzh., nauchnyy red.;

TRUBIN, V.A., glavnyy red.; SOSHIN, A.V., zam.glavnogo red.; GRINE
VICH, G.P., red.; IMPIFANOV, S.P., red.; ONUFRIYEV, I.A., red.;

ZEMIM, P.A., red.; VDOVENKO, Z.I., red.izd-va; SHINOKOVA, G.M.,

red.izd-va; EL, KINA, E.M., tekhn.red.

[Power engineering handbook for construction work] Sprayochnik energetika na stroitel stve. Ind.2., perer. i dop. Pod red. H.N. Lebedeva. Moskva. (los.izd-vo lit-ry po stroit., arkhit. i stroit. Lebedeva. 1960. 196 p.

(Power engineering)

BONDAR', Ye.P., insh.; VLASOVA, M.A., insh.; KALININ, B.P., insh.; KOPP, M.M. inzh.; SCKCLOVA, A.D., kand. tekhn. nauk; TSEGEL SEIY, V.L., inzh.; UTENKOV, V.P., kand. tekhn. nauk [deceased]; BOGHAHOV, S.I., insh., nauchnyy red.; THUBIN, V.A., glavnyy red.; SOSHIM, A.V., zem.glavnogo red.; GRIMEVICH, G.P., red.; THPIFAHOV, S.P., red.; OHUFRITHY, I.A., red.; KHOKHLOV, B.A., red.; ZIMIN, P.A., red.; SKYORTSOVA, I.P., red.isd-va; GOL BERG, T.M., tekhn.red.; EL KINA, E.M., tekhn.red. [Handbook for the erection of reinforced-concrete elements of industrial buildings | Spravochnik po montashu shelesobetomnykh konstruktsii promyshlemnykh sdanii. Pod rad. B.P.Kalinina. Moskva. Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1960. (MIRA 14:3) 315 p. 1. Hoscow. Gosudarstvonnyy institut po projektirovaniyu stalinykh (Reinforced concrete construction) konstruktsiy.

BARANOV, L.A.; GORBATOV, V.I.; YEVREINOV, D.V.; YERMAKOV, Ya.I.;

PITERSKOV, N.I.; RYL!!!SEV, A.M.; RYAZAHTSEV, K.G.; TOROPOV, A.S.;

TSEYTLIN, G.I.; YAROSHEV, D.M.; TRUBIH, V.A., glavnyy red.;

SOSHIN, A.V., Zem.glavnogo red.; RAKITIN, G.A., red.; GRIMEVICH.,

G.B., red.; YEPIFAHOV, S.P., red.; ONUFRIYEV, Y.A., red.; KHOKHLOV,

B.A., red.; ZIMIN, P.M., red.; TABUNINA, M.A., red.izd-va;

OSENKO, L.M., tekhn.red.

SE TOTAL BUT THE MENT OF THE PROPERTY OF THE P

[Menual on accident prevention and industrial menitation during construction and repair operations] Sprayochnos posoble po tekhnike bezopasnosti i promsanitarii pri proizvodstve stroitel no-montashnykh rabot. Pod red. G.A.Rakitina. Moskva, Gos.izd-vo lit-ry postroit., arkhit. i stroit.materialsm, 1961. 359 p.

(MIRA 14:4)

l. Akademiya stroitel stva i arkhitektury SSSR. Institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel stvu.

(Construction industry--Hygienic aspects)

ROGOVSKIY, L.V., insh.; CHERKASHIN, V.A., kand.tekhn.nauk, starshiy nauchnyy sotrudnik; GORBANEV, V.P.; TRUBIN, V.A., glavnyy red.; SOSHIN, A.V., zam.glavnogo red.; GRIMEVICH, G.P., red.; YEPIFANOV, S.P., red.; ONUFRIYEV, I.A., red.; KHCKHLOV, B.A., red.; ZIMIN, P.A., red.; YUDINA, L.A., red.; RYAZANOV, P.Ye., tekhn.red.; GOL'BERG, T.M., tekhn.red.

THE SENTING SENTERS SENTERS SENTERS SENTERS SENTERS SENTERS SENTING SENTING SENTING SENTING SENTERS SENTERS SENTERS SENTING SENTING

[Earthwork operations under winter conditions] Proisyndstvo zemlianykh rabot v zimnikh vsloviiakh; apravochnoe posobie. Moskva. Gos. izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1961. 149 p. (MRA 14:4)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvi. 2. Rukovoditel'laboratorii zemlyanykh rebot Kauchno-issledovatel'skogo instituta organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu (for Rogovskiy). 3. Laboratoriya zemlyanykh rabot Nauchno-issledovatel'skogo instituta organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu (for Cherkashin). 4. Starshiy tekhnik laboratorii zemlyanykh rabot Nauchno-issledovatel'skogo instituta organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu (for Gorbanev).

(Marthwork--Cold weather conditions)

MANDRIK, P.B., insh.; ZIMIN, P.A., kand.tekhn.nauk, nauchnyy red.; IROMOSHCH, I.L., red.izd-ve; BOROVENV, N.K., tekhn.red.

[Taxtbook for the medianic (on tenastic, Moskva, Gos.ind-vo)
bie dlia mekhanika stroitel nogo uchastka, Moskva, Gos.ind-vo)
lit-ry po stroit., arkhit.i stroit.materialem, 1961. 264 p.

(Building machinery)

(Building machinery)

STARUKHIN, N.M., inzh.; BOGATYKH, Ya.D., inzh.; TRUBIN, V.A., glav. red.; SOSHIN, A.V., zam. glav. red.; GRINEVICH, G.P., red.p YEPIFANOV, S.P., red.; ONUFRIYEV, I.A., red.; KHOKHLOV, B.A., red.; ZIMIN, P.A., red.; TSYURUPA, A.L., inzh., nauchnyy red.; GORDEYEV, F.A., red. izd-va; SHERSTNEVA, N.V., tekhn. red.

[Handbook on masonry operations] Spravochnik po kamennym rabotam.

Moskva, Gos. izd-ve lit-ry po stroit., arkhit. i stroit. materialam,
1961. 198 p. (MIRA 14:10)

l. Akademiya stroitel'stva i arkhitektury SSSR. Institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu.

(Masonry)

GRIGOR'YANTS, A.S.; GLADSHTEYN, D.A.; LANTSBURG, Ya.B.; TRUBIN, V.A., glav. red.; SOSHIN, A.V., zem. glav. red.; GRINEVICH, G.P., rid.; YEPIFA-NOV, S.P., red.; CHUFRIYEV, I.A., red.; KHOKHLOV, B.A., red. ZIMIN, P.A., red.; KANTSEL', Ya.O., nauchnyy red.; SHIROKOVA, G.M., red. izd-va; SHERSTNEVA, N.V., tekhn. red.

EL ENDE DE LEGA ESTAGO DE LEGA ESTAGO ESTAG

[Handbook on the consumption of spare parts and materials in operating and repairing building and road machinery] Spravochnik po raskhodu zapasnykh chastei i materialov dlia ekspluatatsii i rementa stroitel-nykh i dorozhnykh mashin. Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1961. 399 p. (MIRA 14:10) (Building machinery-Maintenance and repair) (Road machinery-Maintenance and repair)

ZIMIN, P.A., kand.tekhn.nauk

Determining the level of over-all mechanization in assembly operations.

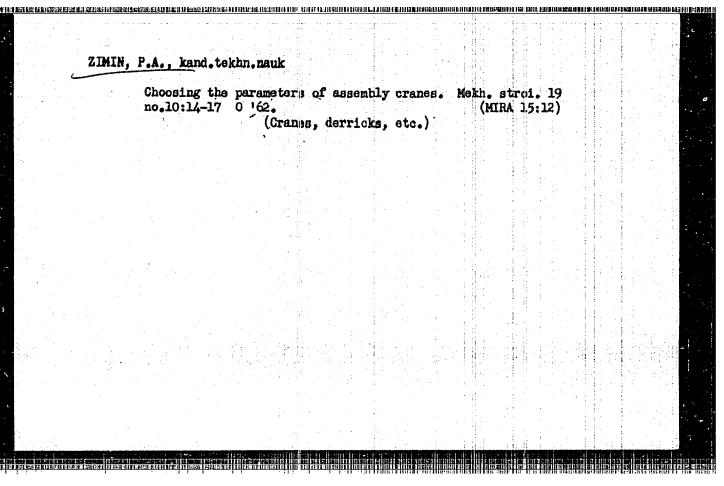
Mont. i spets. rab. v strol. 23 no.4:19-24 Ap '61. (MIRA 14:5)

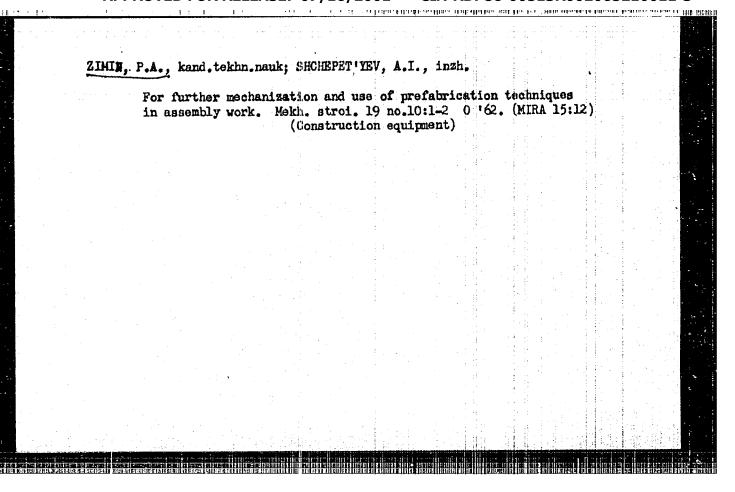
1. Nauchno-issledovatel'skiy institut stroitel'noy promyshlennosti.

(Construction industry)

REBROV, A.S., inzh. [deceased]; USPENSKIY, V.P., inzh.; PLESHKOV, D.I., kand. tekhn. nauk; EELEN'KIY, V.I., inzh.; BAZANOV, A.F., kand. tekhn. nauk; KOGAN, I.Ya., kand. tekhn. nauk; RATNER, A.I.; VOROB'YEV, A.A., inzh.; BAUMAN, V.A., kand. tekhn. nauk; NOSENKO, N.Ye., kand. tekhn. nauk; FOKIN, M.V., inzh. [deceased]; VINOGRADOV, G.V., inzh.; GUSAKOV, M.A., inzh.; SUDAKOVICH, D.I., inzh.; Prinimali uchastiye: SIGAL',Ya.Ye., inzh.; TITOV, M.A., inzh.; OGIYEVICH, V.Ya., kand. tekhn. nauk; ZIMIN, P.A., kand. tekhn. nauk, retsenzent; LAPIR, F.A., inzh., retsenzent; PETROV, N.M., kand. tekhn. nauk, retsenzent; KHOLIN, N.A., inzh., retsenzent

[Construction machinery; a reference manual] Stroitel'nye mashiny; spravochnik. Izd.3., perer. i dop. Moskva, Mashinostroenie, 1965. 788 p. (MIRA 18:6)





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IVYANSKIY, G.B., kand. tekhn. nauk; POLYAKOV, V.I., kand. tekhn.nauk;
RAYPENBERG, S.M., inzh.; CHEREPAKHIN, N.V., inzh.;
PROSKURNINA, V.P., red.; TRUBIN, V.A., glav. red.; SOSHIN,
A.V., zam. glav. red.; CRINEVICH, G.P., red.; IEPIFAHOV, S.P.,
red.; ONUFRIZEY, I.A., red.; KHOKHLOV, B.A., red.; ZIMIN, P.A.,
red.; PEREVALYUK, M.V., red. izd-va; NALMOVA, G.D., tekhn. red.

[Erection of completely precast apartment houses] Montazh polnosbornykh zhilykh zdanii; spravochnoe posobie. Pod red. V.P.
Proskurnina. Moskva, Gosstroiizdat, 1962. 94 p.
(MIRA 15:11)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu.
(Apartment houses) (Precast concrete construction)

ZIMIN, P.A., kand.tekhn.nauk

Conference on the problems of over-all mechanization of loading and unloading operations. Mekh. stroi. 18 no. 3:30-31 Mr '61.

(MIRA 14:5)

1. Nauchno-issledovatel'skiy institut stroitel'noy promyshlennosti.

(Loading and unloading)

GEL'MAN, A.S.; GRINEVICH, G.P., prof.; GRINEVICH, G.G.; ZOTOV, V.P.;

KOMAROV, G.V.; PAVLOV, S.M.; FIRMOR, A.V.; TRUEIN, V.A., glav.

red.; SOSHIN, A.V., zam. glav. red.; YEPIFALIZIMIN, P.A., red.;

OMURITIEV, I.A., red.; KHOKHLOV, B.A., red.; ZIMIN, P.A., red.;

KROMOSHCH, I.L., inzh., red.; NAUMOVA, G.D.; tekhn. red.

[Handbook on loading, unloading, and conveying operations in

construction] Sptavochrik po pogruzochno-razgruzochnyn i transportnym rabotam na straitel'stve. Pod red. G.P.Grinevichn.

Moskva, Gosstroirdat, 1962. 376 p. (MIRA 15:9)

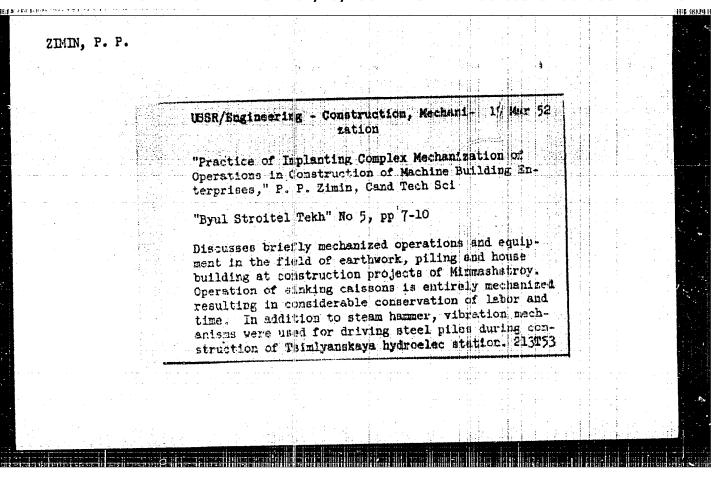
(Material handling) (Building materials)

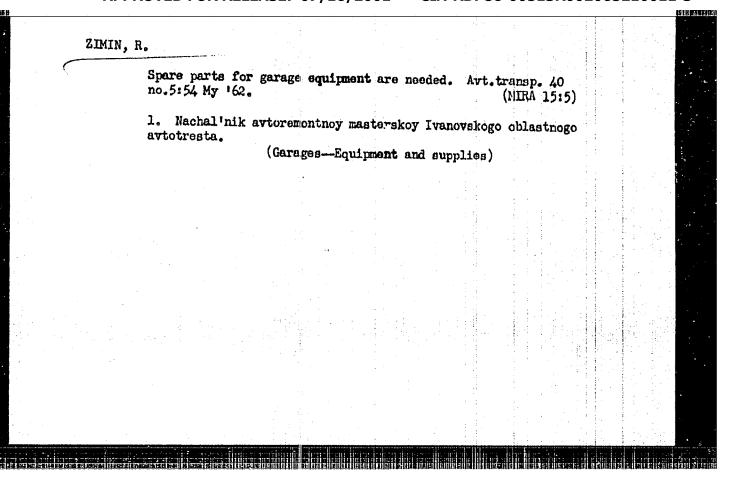
ZIMIH, P.H.; PISARNITSKAYA, M.H.; VISH, I.H.; MAKSIMEHRD, V.I.; SAMORODOVA, A.I.

TO THE PERSON AND THE

Immediate results of dissue therapy in psychic disorders. Zh. newropat. psikhiat., Moskva 52 mo.1:47-48 Jan 52. (CLMI 21:5)

1. Of Tambov Oblast Pmychoneurological Hospital (Head Physician-A.M. Pisarnitskaya).

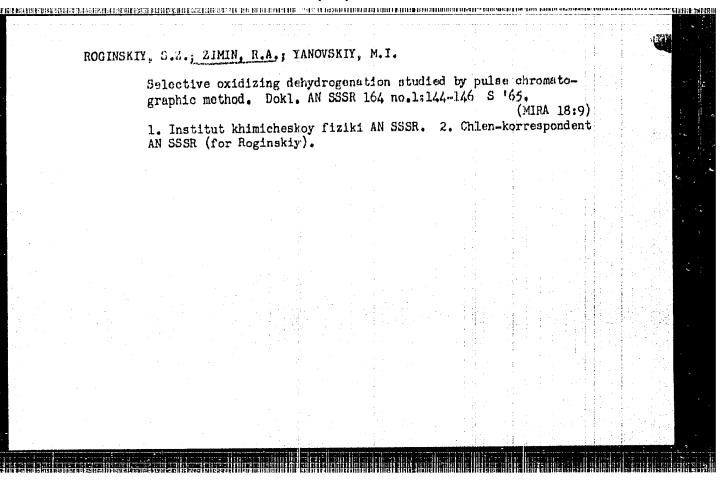


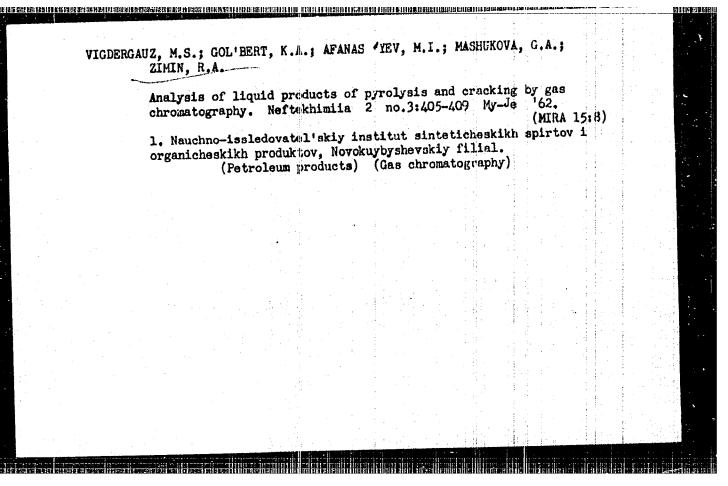


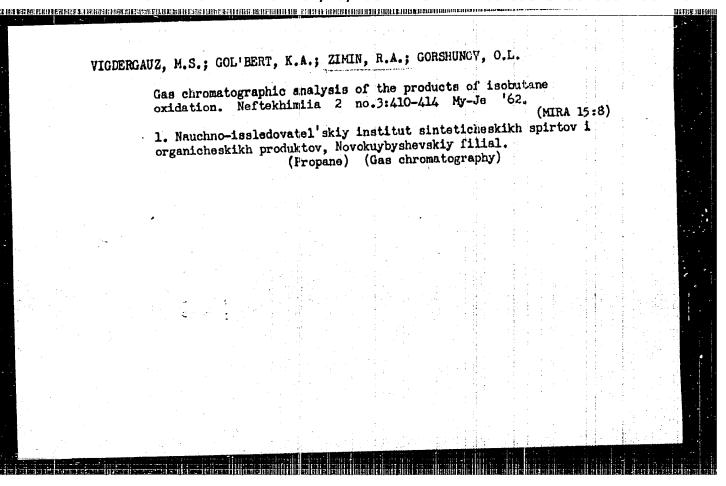
VINDERGAUZ, M.S.; GOL'EERT, K.A.; ZIMIN, R.A.

Hardened polyester resin as a stationary phase in gas chromatography.
Khim.i tekh.topl.i masel 7 no.4169-72 Ap '62. (MIRA 1514)

1. Kuybyshevskiy filial Vsesoyuznogo nauchno-issledovatel'skogo
instituta sinteticheskikh smol.
(Resins, Synthetic) (Gas chromatography)



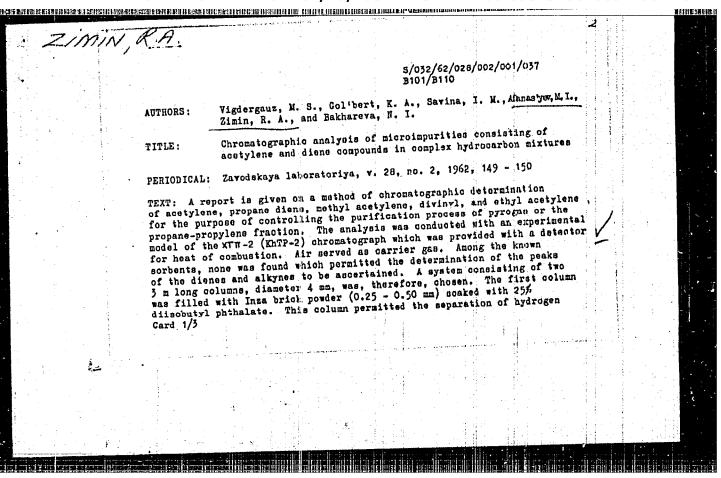


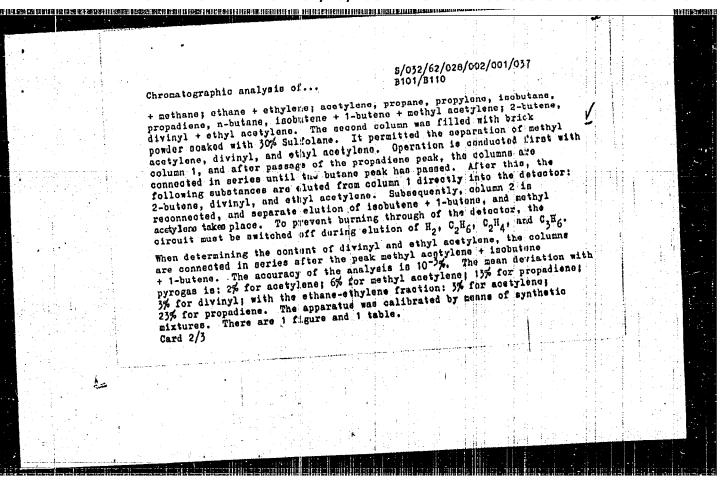


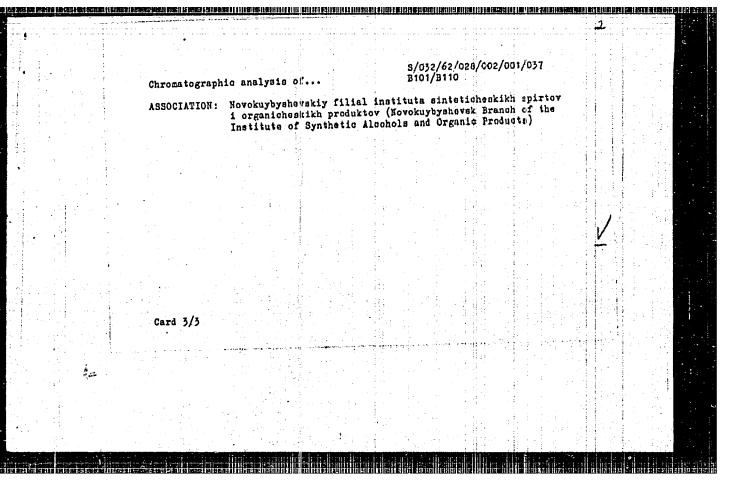
YANOVSKIY, M.I.; GAZIYEV, G.A.; NIKIFOROV, V.P.; MAKARENKO, V.G.; ZIMIN, R.A.; MARININ, P.I.; FRANK, Yu.A.

Gas chromatograph with automatic pickup of samples from a flow-Zav. lab. 31 no. 12:1526-1528 *65 (MIRA 19:1)

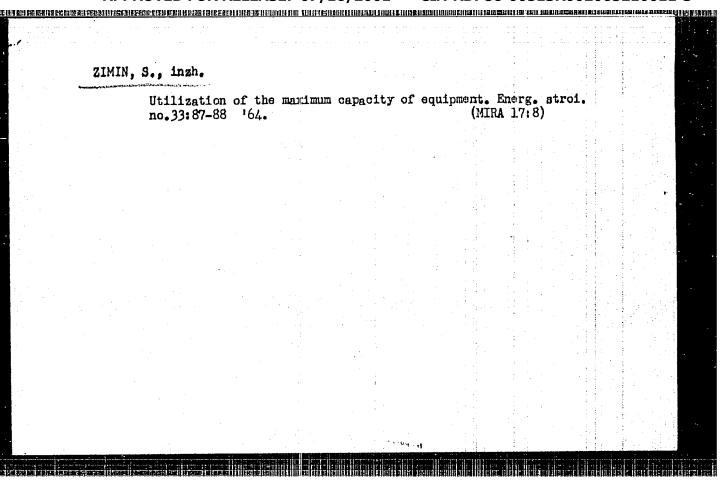
1. Institut khimicheskoy fiziki AN SSSR.

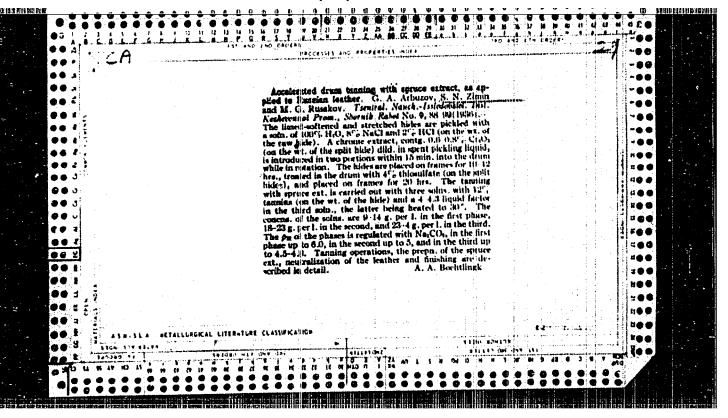






l. Novokuybyshevskiy filial instituta sinteticheskikh spirtov i organicheskikh produktov. (Acetylene compounds) (Olefins) (Chromatographic analysis)		AUZ, M.S.; GOL'BERT, K.A.; SAVINA, I.M.; AFANAS'YEV, M.I.; ZIMIN, R.A.; BAKHARKVA, N.I. Chromatographic analysis of microimpurities of acetylene and diene compounds in complex hydrocarbon mixtures. Zav.lub. 28	
organicheskikh produktov. (Acetylene compounds) (Olefins)			
		organicheskikh produktov. (Acetylene compounds) (Olefins)	
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KEDRIN, Ye.A., kand.tekhn.nauk; SUVOROVA, Ye.Ye., kand.tekhn.nauk;

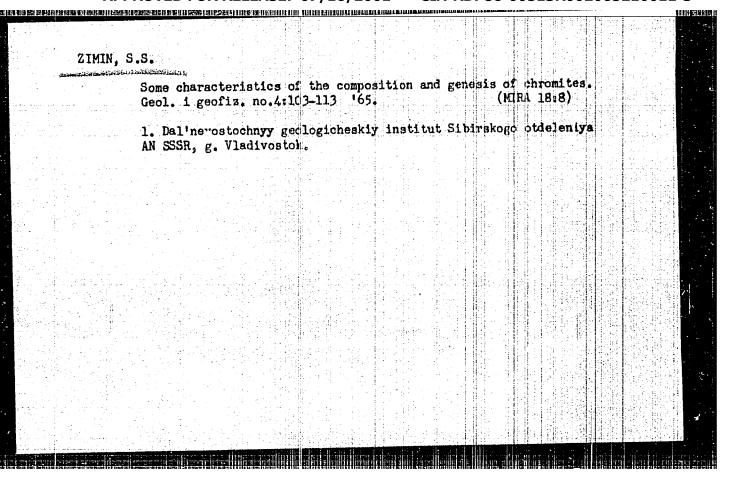
ZIMIN, S.N., kand.tekhn.nauk

Abrasion resistance characteristics of lining leather.

Izv.vys.ucheb.zav., tekh.leg.prom. no.2:68-72 '62. (KIRA 15:5)

1. Moskovskiy Ordena Trudovogo Krasnogo Znameni institut narodnogo khozyaystva imeni Plekhanova. Rekomendovara kafedroy tovarovedeniya promyshlomnykh tovarov.

(Leather.—Testing)



ZIMIN,	s.s.	·
	Composition and paragenesis of chromespinellids in ultrabasic rocks. Geol.i geofiz. no.10:46-57 63. (MIRA 17:1)	
	1. Dal'nevostochnyy geologicheskiy institut, Vladivostok.	

ZIMIN, S.S

POSPELOV, C.L., starshiy nauchnyy sotradnik; LAPIN, S.S.; BELOUS, N.Kh.; KLYAROVSKIY, V.M.; KINE, O.G.; VAKHRUSHEV, V.A.; SHAPIRO, I.S., starshiy nauchnyy sotrudnik; KALUGIE, A.S.; MUKHIE, A.S.; GARNETS. N.A.; SPEYT, Yu.A.; SELEVESTROVA, M.I.; RUTKEVICH, V.G.; BYKOV, G.P.; HIKONOV, N.I.; SAKOVICH, K.G.; MEDVEDKOV, V.I.; ALADYSHKIH, A.S.; PAN, F.Ya.; RUSANOV, M. ().; YAZBUTIS, E.A.; ROZHDESTVENEKIY, Yu.V.; SAVITSKIY, G.Yo.; PRODANCHUK, A.D.; LYSENKO, P.A.; LEBEDEV, T.I.; KAMENSKAYA, T.Ya.; MASLEHNIKOV, A.I.; PIPAR, R.; DODIN, A.L.; MITROPOL'SKIY, A.S.; LUMIN, V.A.; ZIMIN, S.S.; KORKL', V.G.; DERBIKOV, I.V.; BARDIN, I.P., akademiky mancinty rad.; Corbacter. T.F., nauchnyy red.; YEROFEYEV, N.A., nauchnyy red.; NEERASOV, N.N., nauchnyy red.; SKOBNIKOW, M.L., nauchnyy red.; SMIRNOY-YERIH, S.S., nauchnyy red. [deceased]; STRUMILIN, S.G., akademik, nauchnyy red.; KHLEBNIKOV, V.B., nauchmyy red.; CHINAKAL, N.A., nauchnyy red.; SLEDZYUK, P.Ye., red. toma; SOKOLOV, G.A., red. toma; BOLDYREV, G.P., red.: VOGMAN, D.A., red.; KASATKIN, P.F., red.: KUDASHNVA, I.G., red.izd-va: KUZ'MIN, I.F., tekhn.red.

> [Iron-ore deposits of the Altai-Sayan region] Zhelezorudnye mestorozhdeniia Altae-Saianskoi gornoi oblasti. Vol.1. Book 1. [Geology] (Continued on next card)

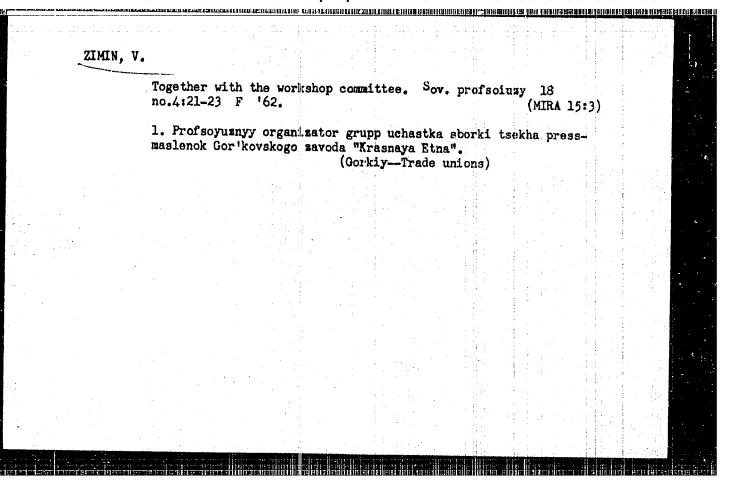
POSPELOV, G.L .- (Continued) Card 2. Geologiia. Otvetstvennyi red. I.P. Bardin. Moskva. 1958. (MIRA 12:2) 1. Akademiya nauk SSSR. Keshduvedomstvennaya postoyannaya komissiya po zhelezu. 2. Postoyannaya mezhduvedomstvennaya komissiya po zhelezu Akademii nauk SSSR (for Pospelov, Shapiro, Sokolov). 3. Mapadno-Sibirskiy filial Akademii nauk SSSR (for Vakhrushav, Pospelov.) 4.Zapadno-Sibirskoye geologicheskoye upravleniye (for Sakovich). 5. Krasnoyarskoye geologicheskoye upravleniye (for Pan). 6. Zapadno-Sibirskiy geologorazvedochnyy trest Chermatrazvedka (for Prodanchuk). 7. Sibirskiy geofizicheskiy trest (for Pipar). 8. Vsesoyuznyy geologicheskiy nauchnoissledovatel'skiy institut (for Dodin). 9. Gornaya ekspeditsiya (for Mitropol'skiy). 10. Gornoye upravleniye Kuznetskogo metallurg.kombinata (for Lukin). 11. Tomskiy politekhnicheskiy institut (for Zimin). 12. Sibirskiy metallurg.institut (for Korel'). 13. Trest Sibneftegeofizika (for Derbikov). (Altai Mountains-Iron ores) (Sayan Mountains-Iron ores)

ZIMIN, V.; GOLUBEV, N. (Manturovo, Kostromskaya oblast'); SERGEYEV, A. (Leningrad); DUSHIN, F.; SOLOV'YEV, P.; NIKIFOROV, M., shofer (Satka, Chelyabinskaya oblast'); BABICH, V.

Readers' letters. Pozh.delo 9 no.5:31 My '63. (MIRA 16:5)

1. Pomoshchnik nachal'mika posharnoy komandy, pos.Iul'tin (for Zimin). 2. Obshchestwannyy posharnyy inspektor sovkhoza Vyaznikovskiy, Vladimirskoy obl. (for Dushin). 3. Predsedatel' rayonnogo soveta Dobrovol'nogo posharnogo obshchestva, Chelyabinak (for Solovige). 4. Uchastkovyy posharnyy instruktor Yushnoy sheleznoy dorogi (for Babich).

(Fire prevention)



21m/N, V.A.

116-58-3-3/21

AUTHORS:

Murzin, G.A.; Latskiy, V.I.; Zimin, V.A.; Kizler, R.A.;

and Sanik, A.Ya., Engineers

TITLE:

Machine Tools for the Manufacturing of Mining Supports

(Stanki dlya izgotovleniya elementov krepi)

PERIODICAL:

Mekhanizatsiya Trudoyemkikh i Tyazhelykh Rabot, 1958, # 3,

pp 10-13 (USSR)

ABSTRACT:

The Ural'skiy nauchno-issledovatel'skiy i proyektnyy institut mednoy promyshlennosti-unipromed' (Ural Scientific Research and Designing Institute of the Copper Industry) has worked out 2 new types of mining support manufacturing machine tools, the "KZS-1U" and the "KZS-2U". The KZS-1U is a two spindle milling machine capable of producing 120 mining supports per hour, with lengths from 2,300 to 3,000 mm, and diameters from 170 to 250 mm. Two electric motors of the A52-4 type are used to operate the machine; one electric motor of the AOL-22-4 type is used for the conveyor mechanism. The wattage of the electric motors ranges from 7 to 0.4 kw. The dimensions of the machine are 4,180x2,885x1,435 mm, and its weight is 2,622 kg. The test model manufactured by the Kyshtymskiy mekhanicheskiy zavod (Kyshtym Mechanical

Card 1/2

Machine Tools for the Manufacturing of Mining Supports 118-58-3-3/21

Plant) has shown high working qualities.

The KZS-2U, used to cut vertical props, is a two spindle milling machine. Material handling is automatic, with an output of 30 props per hour. The length of the manufactured props may range from 1,500 to 3,900 mm, and their diameters from 180 to 220 mm. The machine is operated by two 4.5 kw electric motors of the AOL-51-4 type. Two 0.4 kw electric motors of the AOL-22-4 type are used, one each for the moving of carriages and material handling. The dimensions of the milling machine are 10,500x2,140x2,187 mm and its weight is 2,170 kg.

There are 3 graphs.

AVAILABLE:

Library of Congress

Card 2/2

LATSKIY, V.I., insh.; ZIMIN, V.A., insh.

Rquipment for charging deep holes. Besop.truda v prom. 3
no.9:32-33 S '59.
(Blasting)

CHUVIN, V.P.; KULIKOV, O.T., insh.; LADIN, M.M., insh.; LATSKIY, V.I., insh.;

ZIMIN, V.A., insh.; LEVENENKO, K.P., insh.; LEVIN, S.S., insh.;

SERGEYEV, V.V., insh.

"Ural-61" boring machine. Gor.zhur. no.2:53-55 F '64.

(MIRA 17:4)

1. Glavnyy instruktor Magnitogorskogo savoda gornogo oborudovaniya
(for Chuvin). 2. Nauchno-isələdovatelişty i proyektnokonstruktorskiy institut gornogo i obogatitel'nogo oborudovaniya,
Sverdlovsk (for Latskiy, Zimin, Levchenko, Levin, Sergeyev).

"Reliability of Tubes in Electronic Computing Machines" a paper presented at the Conference on Methods of Development of Soviet Mathematical Machine-Building and Instrument-Building, 12-17 March 1956.

Translation No. 596, 8 Oct 56

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ZIMIN, V. A. (Cand. in Tech. Sci.)

"Logical Circuits Employing Pulse Transformers and Semiconductor Diodes" a paper presented at the Conference on Methods of Development of Soviet Mathematical Machine-Building and Instrument-Building, 12-17 March 1956,

Translation No. 596, 8 Oct 56

TRANS of Abst. D 499674

ZIMIN V. A

PHASE I BOOK EXPLOITATION

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Nauchno-tekhnicheskoye obshchest o priborostroitel noy promyshlennosti

- Avtomaticheskoye upravleniye i wychislitel'naya tekhnika; trudy soveshchaniya provedennogo v marte 1957 g. (Automatic Control and Computer Technique; Transactions of a Conference Held in March, 1957) Moscow, Mashgiz, 1958. 494 p. 12,000 copies printel.
- Ed.: Solodovnikov, V.V. Doctor of Technical Sciences, Professor; Ed. of Publishing House: Konovalov, G.M.; Tech. Ed.: El'kind, V.D.; Managing Ed. for Literature on Machine Building and Instrument Making: (Mashgiz): Pokrovskiy, N.V., Engineer.
- PURPOSE: The book is intended for scientific personnel and engineers working with computers and automatic control.
- COVERAGE: The book is a collection of 24 articles presented at a conference called by the Scientific and Technical Society of the Instrument Manufacturing Industry in March, 1957. The conference considered problems of the construction and application of computer equipment for the automatic control of industrial processes. The articles discuss problems of analysis

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Automatic Control and Computer (Cont.)

SOV/1174

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and synthesis of computers and automatic control systems. They also describe the principles of construction and design of the newest components of these systems. The articles present specific examples of the application of computer mechnique to the calculation and design of automatic control systems and the automation of industrial processes. M.I. Zborovskiy, Engineer, is mentioned in connection with arranging the conference. Engineers I.M. Rusevich and L.I. Shorol' helped in preparing the collection. References appear after each article.

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Solodovnikov, V.V., Professor, Doctor of Technical Sciences, Batkov, A.M., Engineer, Bredis, A.A., Engineer, and Matveyev, P.S., ., Engineer. Methods of Mathematical Statistics and the Theory of Antomatic Control

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PHASE I BOOK EXPLOITATION

SOV/1722

Nadezhnost' radioelektronnoy apparatury; sbornik statey (Reliability of Electronic Equipment; Collection of Articles) Moscow, Ind-vo "Sovetskoye radio," 1958. 144 p. Number of copies printed not given.

Compiler: I.V. Grushin; Ed.: V.G. Masharova; Tech. Ed.: A.A. Sveshnikov.

PURPOSE: The book may be useful to engineering personnel working with electronic equipment.

COVERAGE: The authors discuss the necessity of determining the reliability of component elements of various electronic systems and describe methods of calculating the probability of faults in trigger circuits, amplifiers, rectifiers, and other vacuum-tube devices. No personalities are mentioned. References appear at the end of all but one article.

TABLE OF CONTENTS:

Zimin, V.A. Reliability of Operation of Standard Elements of the High-speed Electronic Computer (BESM)

The author explains methods of checking computer operation and discusses

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I ISERTERREBISCHIEG FERNEIGH SAUGE SEM FERNESCHLESSEN FILDE SEM FILDE SEM FILDE IN DER FILDER IN DER SOV/1722 Reliability of Electronic (Cont.) the reliability of operation of such standard elements as trigger circuits, pulse-forming circuits, pulse rectifiers, phase inverters, cathode followers, diodes, and amplifiers with pulse delay. There are 3 references, all Soviet. Elements of the High-speed Elec-Zimin, V.A. Life of Vacuum Tubes in 27 The author discusses the results of studying the reliability of computer vacuum tubes at the USSR Academy of Sciences in 1952-1954. He also explains the stability of tube parameters, operating conditions, and tube life. There are 2 references, both Soviet. 40 Sinitsa, M.A. Problems of Using Stand-by Radio Electronic Equipment The author describes methods of reserving and connecting stand-by equipment, and presents a mathematical analysis of probabilities of faults and discusses the effectiveness of using stand-by equipment. There are 5 references, 3 of which are Soviet [including 2 translations]; and 2 English. Card 2/4

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Reliability of Electronic (Cont.)

Babenko, A.A. Reliability Parameters of Electronic Equipment
The author discusses the probability of the occurrence of faults in electronic equipment and explains the necessity of determining the reliability of various components. There are no references.

AVAILABLE: Library of Congress (TK780.N3)

JJ/lsb 7-6-59

Card 4/4

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67495 SOV/112-59-20-42566

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 20, p 110

(USSR)

AUTHOR:

Zimin, V.A.

TITLE:

Principles of Designing Mathematical Control Machines on the Basis

of Universal High-Speed Digital Computers

PERIODICAL:

V sb. : Avtomat, upravleniye i vychisl. tekhn. Moscow, Mashgiz,

1958, pp 29-45

ABSTRACT:

The principles of operation of synchronous and asynchronous computers are briefly analyzed. In spite of relative complexity of calculation and of initial adjustment the synchroficus machines based on pulse circuits are more effective than the asynchronous ones based on static circuits. The trends in development of control machines are discussed. Efforts to substitute electronic tubes with semiconductor elements and the difficulties faced are noted. It is pointed out that the use of ferrite corestin circuits of high-speed computers leads to an increased power consumption. The problems of reliability care discussed.

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The results of 22 months' observations of the standard elements of a

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Principles of Designing Mathematical Control Machines on the Basis of Universal High-Speed Digital Computers

BESM machine are cited. On the basis of data published on a semiconductor "TRA-DIK" machine it is maintained that transistors are only a few times more reliable than tubes. The application of semiconductor diodes in computers is discussed. The programming device of the BESM is taken as an example to show that the use of diodes simplifies the circuit and increases the reliability of operation. Foreign machines for control of real objects are briefly reviewed. 4 illustrations, 10 references.

V.M.P.

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PHASE I BOOK EXPLOITATION

SOV/5990

Zimin, Viktor Aleksandrovich

Elektronnyye vychislitel nyye mashiny; osnovy teorii, rasolata i primeneniya (Electronic Computers; Basic Theory, Design, and Application) Moseow, Mashgiz, 1962. Errata slip inserted. 21,000 copies printed.

Reviewers: G. K. Barabanova, Engineer, G. M. Zhdanov, Doctor of Technical Sciences, O. I. Rogacheva, Engineer, Ye. T. Semenova, Engineer, A. G. Shigin, Candidate of Technical Sciences; Ed.: S. L. Martens, Engineer; Tech. Ed.: B. I. Midel', Managing Ed. for Literature on Instrument Construction and Means of Automatization: N. V. Pokrovskiy, Engineer.

This book is intended for engineers and technicians doncerned with the design and operation of high speed computers. It may also be useful to students PURPOSE: of related specialties in schools of higher education.

COVERAGE: The book gives fundamentals of the theory, calculation, and application of high-speed digital computers and makes recommendations on their design. Questions on the design and operation of these computers are answered. Attention is

Card 1X

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	also given to digital electronic elements, tubes, transistorized and fer core electronic-function units, basic problems of the structure of high-specital computers, and methods of insuring their reliability. The electron cuits described were tested on EESM, IBM-704, URAL, TKh-2, and BIZMAK co No personalities are mentioned. There are 31 references: 23 Soviet (in 2 translations), and 8 English.	d dig- ic cir-	
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